

**2004 Oat Variety Trial – Continuously Cropped - No-till**

**Hettinger**

Variety	Days to Head	Plant Height	Test Weight	---- Grain Yield ----			Average Yield	
				2002	2003	2004	2 yr	3 yr
		inches	Lbs/bu	----- Bushels per acre -----				
Sesqui	79	26	39.4	39.4	78.1	83.9	81.0	67.1
Monida	82	31	37.8	42.5	73.4	82.2	77.8	66.0
Killdeer	76	28	38.0	38.8	72.4	84.4	78.4	65.2
Beach	78	31	41.0	39.0	72.3	74.2	73.8	62.2
Otana	80	34	38.6	39.2	68.7	78.6	73.6	62.2
Jerry	71	28	38.2	41.0	76.2	67.7	72.0	61.6
Youngs	79	29	38.5	34.4	66.1	82.6	74.4	61.0
AC Assiniboia	78	29	36.4	34.2	67.4	75.4	71.4	59.0
Morton	78	33	38.6	30.4	69.0	75.2	72.1	58.2
AC Medallion	80	30	38.6	30.4	68.9	73.9	71.9	58.1
Ebeltoft	82	26	38.1	34.2	63.5	74.7	69.1	57.5
HiFi	78	28	38.3	31.3	65.1	74.9	70.0	57.1
Hyttest	76	33	39.8	33.3	71.1	63.0	67.0	55.8
Reeves	70	31	38.1	20.6	65.3	70.2	67.8	55.0
Buff*	69	27	46.9	24.8	44.9	61.1	53.0	43.6
Stark*	82	34	42.6	20.4	36.9	61.7	49.3	39.7
Paul*	80	35	45.0	16.7	33.7	56.6	45.2	35.7
CDC Pacer	78	30	39.1		66.8	88.0	77.4	
AC Pinnacle	80	27	38.8		69.2	83.5	76.4	
AC Kaufman	77	30	38.0		66.9	77.8	72.4	
AC Ronald	81	28	38.4		68.7	63.4	66.0	
CDC Dancer	78	30	38.6			68.2		
AC Gwen	79	33	40.0			60.1		
Trial Mean	78	30	39.1	35.6	67.2	74.6	--	--
C.V. %	1.5	8.4	1.9	17.4	8.3	10.4	--	--
LSD .05	2	3	1.1	8.7	7.8	10.9	--	--
LSD .01	2	5	1.4	11.6	10.3	14.4	--	--

\*Naked (hulless) type.

Planting Date: April 6, 2004 Harvest Date: August 2, 2004

Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).

Previous Crop: 2001 = barley, 2002 & 2003 = soybean.

Notes: The 2002 trial sustained severe heat and moisture stress. The 2003 trial sustained late season heat and moisture stress. The 2004 trial sustained hard frosts on May 13 (18° F), May 14 (16° F) and on June 18 (25° F).

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**Mandan**

Variety	Plant	Test	---- Grain Yield ----			Average Yield		
	Height	Weight	2001	2003	2004	2 yr	3 yr	
	inches	Lbs/bu	----- Bushels per acre -----					
Killdeer	31	34.6	89.2	92.5	86.1	89.3	89.3	
HiFi	34	35.5	98.9	81.0	68.8	74.9	82.9	
Morton	36	37.2	82.2	77.5	60.8	69.2	73.5	
Beach	36	37.9		85.4	64.2	74.8		
Otana	34	36.9			71.5			
Stark*	38	38.3			50.4			
Trial Mean	35	36.7	89.2	80.8	67.0	--	--	
C.V. %	7.1	1.5	20.8	6.3	9.5	--	--	
LSD .05	NS	1.0	NS	7.9	11.6	--	--	
LSD .01	NS	1.4	NS	11.0	16.5	--	--	

\*Naked (hulless) type.

Planting Date: April 13, 2004

Harvest Date: August 13, 2004

Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).

Previous Crop: 2000 – 2003 = Barley.

NS = no statistical difference between varieties.

Notes: The 2004 trial sustained moderate moisture stress.

**2004 Oat Variety Trial - Continuously Cropped - No-till      Scranton**

Variety	Plant	Test	---- Grain Yield ----			Average Yield		
	Height	Weight	2002	2003	2004	2 yr	3 yr	
	inches	Lbs/bu	----- Bushels per acre -----					
Killdeer	33	35.4	80.3	94.7	113.1	103.9	96.0	
HiFi	38	36.0	77.1	83.8	107.9	95.8	89.6	
Morton	39	36.9	73.9	76.6	105.6	91.1	85.4	
Beach	37	38.1		92.6	112.3	102.4		
Stark*	39	39.2			80.2			
Trial Mean	37	37.2	75.3	86.9	103.8	--	--	
C.V. %	3.0	1.2	9.9	9.9	4.6	--	--	
LSD .05	2	0.7	11.2	NS	7.3	--	--	
LSD .01	2	0.9	NS	NS	10.2	--	--	

Planting Date: April 14, 2004

Harvest Date: August 16, 2004

Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).

Previous Crop: 2001 – 2003 = Lentil.

\*Naked (hulless) type.

NS = no statistical difference between varieties.

**2004 Oat Variety Trial - Continuously Cropped - No-till** **Selfridge**

Variety	Plant Height inches	Lodging 0 – 9**	Test Weight Lbs/bu	--- Grain Yield ---			Average Yield	
				2000	2001	2004	2 yr	3 yr
				----- Bushels per acre -----				
Killdeer	41	1.0	35.8	109.0	104.4	104.0	104.2	105.8
HiFi	45	1.8	37.3		128.5	106.7	117.6	
Morton	49	1.2	38.6		111.7	105.4	108.6	
Beach	50	1.5	38.0			110.4		
Stark*	50	1.2	38.8			73.5		
Trial Mean	47	1.4	37.7	99.5	119.4	100.0	--	--
C.V. %	3.5	67.3	1.6	7.8	17.0	8.2	--	--
LSD .05	3	NS	0.9	--	NS	12.6	--	--
LSD .01	4	NS	1.3	--	NS	17.7	--	--

Planting Date: April 13, 2004

Harvest Date: August 11, 2004

Seeding Rate: 750,000 live seeds / acre (approx. 1.7 bu/A).

Previous Crop: 1999 & 2000 = HRWW, 2003 = Lentil.

\*Naked (hulless) type.

\*\*Lodging: 0 = none, 9 = lying flat on ground.

NS = no statistical difference between varieties.